(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 16 June 2005 (16.06.2005)

(10) International Publication Number WO 2005/053745 A1

(51) International Patent Classification7:

A61K 47/00

(21) International Application Number:

PCT/EP2004/013619

(22) International Filing Date: 1 December 2004 (01.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

03027460.9

1 December 2003 (01.12.2003) EP

- (71) Applicant (for all designated States except US): BIO-GENERIX AG [DE/DE]; Janderstrasse 3, 68199 Mannheim (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ARNOLD, Stefan [DE/DE]; Marstallstrasse 49A, 68723 Schwetzingen (DE). FRANSSEN, Okke [NL/NL]; Hooft Graaftlandstraat 21, NL-3525 VM Utrecht (NL). MEKKING, Albert [NL/NL]; De Berkel 1, NL-3448 CR Woerden (NL).
- (74) Agents: DR. KELLER, Günter et al.; LEDERER & KELLER, Prinzregentenstrasse 16, 80538 München (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ERYTHROPOIETIN SOLUTION FORMULATION

A stable pharmaceutical formulation of erythropoietin is disclosed which contains tris-(hydroxymethyl)-aminomethane as stabilizer, whereby the formulation does not contain amino acids or human serumalbumin.